

PORSF  
11.3.31.5.1 V2

## **PART I**

### **ENVIRONMENTAL SURVEY**

### **WASTE WATER GENERATING CHARACTERISTICS**





CITY OF

PORTLAND, OREGON

BUREAU OF ENVIRONMENTAL SERVICES

Environmental Survey  
Wastewater Generating Characteristics1120 SW. 5th Ave., Rm. 400  
Portland, Oregon 97204-1972

LEAVE BLANK City Use only

Date Received: \_\_\_\_\_

Treatment Plant: \_\_\_\_\_

Service Area: \_\_\_\_\_

Pump Stations: \_\_\_\_\_

Please complete in full, either typed or printed clearly.

## SECTION A - GENERAL INFORMATION

- A1. Company name: Hall-Buck Marine, Inc.
- A2. Division name: Portland Bulk Terminal - T-5
- A3. Facility address: 15552 N. Lombard Street  
Portland, OR 97203
- A4. Mailing address: P. O. Box 83838  
Portland, OR 97283-3838
- A5. Representative completing this form:  
Name Stephen Rinella  
Title Engineer  
Smith & Monroe & Gray Engineers  
Telephone (503) 643-8595 FAX (503) 643-8610
- A6. Brief description of business—principal products and services:  
Transfer of dry bulk products from railcars to storage building to ship. Product to be handled is potash; future products include coal, coke and sulfur.
- A7. Is the building currently connected to public sewer system? ☐ Yes ☒ No  
If no, have you applied for a sewer connection? ☒ Yes ☐ No  
Estimated date of connection Unknown Building Permit Application BLD 95-03332
- A8. Standard Industrial Classification Number(s) (SIC Code if known): 4491
- A9. Do you or will you discharge oils, grease, or fats to the public sewer? ☐ Yes ☒ No
- A10. Do you use any of the following devices?  
a. Oil and water separator ☐ Yes ☒ No  
b. Oil and Grease trap ☐ Yes ☒ No  
c. Sand/sediment trap ☐ Yes ☒ No
- A11. How often do you clean the oil and grease trap? Where do you dispose of trapped oil and grease? N/A
- A12. Do you or will you have chemical storage containers, bins, or ponds at your facility? ☒ Yes ☐ No  
Do you have any underground storage tank(s)? ☐ Yes ☒ No
- A13. Have you been issued a local, state, or federal environmental permit? ☒ Yes ☐ No  
If yes, please list the type of permit(s). DEQ: AIR PERMIT AND NPDES PERMIT
- A14. Do you or will you have floor drains in your manufacturing or storage area? ☐ Yes ☒ No  
If you have chemical storage containers, bins, ponds, or floor drains in a manufacturing or storage area, could an accidental spill lead to a discharge to an on-site disposal system (e.g., through a floor drain)? ☐ Yes ☒ No  
To a public sewer? ☐ Yes ☒ No  
To a storm drain? ☒ Yes ☐ No  
To ground? ☒ Yes ☐ No
- A15. Do you or will you discharge wastewater (other than domestic waste from bathrooms, toilets, etc.) to an on-site disposal system? ☐ Yes ☒ No  
To a storm sewer? ☐ Yes ☒ No
- A16. Do you or will you discharge wastewater (other than domestic waste from bathrooms, toilets, etc.) to the public sewer system? ☒ Yes ☐ No
- A17. Do you have an ongoing underground storage tank/groundwater remediation on-site? ☐ Yes ☒ No  
Does it discharge to: Public sewer ☐ Yes ☐ No; Storm sewer ☐ Yes ☐ No; Other (specify) \_\_\_\_\_

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_



CITY OF

PORTLAND, OREGON

BUREAU OF ENVIRONMENTAL SERVICES

## Environmental Survey

## SECTION B - DETAILED WASTEWATER INFORMATION

Company Name Hall-Buck Marine, Inc.Facility Address 15552 N. Lombard Street

- B1. Please describe processes to be used in your facility that will result or may result in wastewater discharge to the public sewer system.  
Railcar unloading area and material handling transfer equipment to bulk storage and to ship loading will be periodically washed down to eliminate product cross-contamination. Washdown water will be collected and pumped to City sanitary system. Some storm runoff from conveyors will also go to sewer.

- B2. This facility generates or will generate the following types of wastes (check all that apply):

	Average gallons per day	Peak gallons per day
<input checked="" type="checkbox"/> Domestic wastes (restrooms, employee showers, etc., Estimate 35 gallons per day for each employee)	<u>350</u>	<u>350</u>
<input type="checkbox"/> Cooling water, noncontact		
<input type="checkbox"/> Boiler/Tower blowdown		
<input type="checkbox"/> Cooling water, contact		
<input type="checkbox"/> Process		
<input checked="" type="checkbox"/> Equipment/Facility Washdown	<u>15,000 (1)</u>	<u>30,000 (2)</u>
<input type="checkbox"/> Air Pollution Control Unit		
<input checked="" type="checkbox"/> Stormwater runoff to sewer	<u>1,500 (3)</u>	<u>30,000 (4)</u>
<input type="checkbox"/> Other (describe)		
<input type="checkbox"/> Cleanup		
Total	<u>16,850</u>	<u>60,350</u>

Time and Duration of Discharge: Equipment/Facility washdown 500 GPM @ 30 Minutes.Cleanup Time: N/A

- B3. Products Produced: (Attach additional sheets as necessary)

Type	Amount and Rate of Production	Process
Potash (KCI)	3000 to 4000 MTPH	Transfer Point
Coal	(Future) Do	Do
Coke	(Future) Do	Do
Sulfur	(Future) Do	Do

## NOTES

(1) Based on one wash per day (365 Days) @ 30 minutes at 500 gpm.

(2) Based on assumed maximum of two washes per day.

(3) Based on rainfall of 2" max. per day; 36"/Year.

(4) Based on 2" max. rainfall in 24 hours.

- B4. Water supplied from: (Best estimate if not metered)  
(City, Well, etc.)

Water Source(s)	Water Acct No. Meter not yet	Water Quantities*	
		Estimated	Meter
a. <u>City</u>	<u>installed.</u>	<u>15,000</u>	gal/day
b. _____	_____	_____	gal/day
c. _____	_____	_____	gal/day
Total		<u>15,000</u>	

\*1 ccf = 748 gallons

- B5. Wastes are discharged or may be discharged to: (check all that apply)
- |   | Average gallons<br>per day | Peak gallons<br>per day |
|---|----------------------------|-------------------------|
| <input checked="" type="checkbox"/> Sanitary sewer (See B2 above) | <u>16,850</u>              | <u>60,350</u>           |
| <input type="checkbox"/> Storm sewer                              |                            |                         |
| <input type="checkbox"/> Surface water                            |                            |                         |
| <input type="checkbox"/> Groundwater (onsite disposal)            |                            |                         |
| <input type="checkbox"/> Waste haulers                            |                            |                         |
| <input type="checkbox"/> Other (describe)                         |                            |                         |
| Total   | <u>16,850</u>              | <u>60,350</u>           |

Are the discharges batch ☒? continuous ☐?

B6. Are any liquid wastes or sludges from this firm disposed of by means other than discharge to the sewer system?

☐ Yes ☒ No If "no," skip Items B7 and B8; If "yes," complete items B7 and B8.

B7. These wastes may best be described as: NA

Item No.	Estimated gallons or pounds per year
----------	---

- |   |  |
|---|--|
| <input type="checkbox"/> Acids                            |  |
| <input type="checkbox"/> Alkalies                         |  |
| <input type="checkbox"/> Heavy metal sludges              |  |
| <input type="checkbox"/> Inks/dyes                        |  |
| <input type="checkbox"/> Oil and/or grease                |  |
| <input type="checkbox"/> Organic compounds                |  |
| <input type="checkbox"/> Paints                           |  |
| <input type="checkbox"/> Pesticides                       |  |
| <input type="checkbox"/> Plating wastes                   |  |
| <input type="checkbox"/> Pretreatment sludges             |  |
| <input type="checkbox"/> Solvents/thinners                |  |
| <input type="checkbox"/> Other hazardous wastes (specify) |  |

☐ Other wastes (specify)

B8. For the above checked wastes, does your company practice: N/A

- ☐ Onsite storage  
location \_\_\_\_\_
- ☐ Offsite storage  
hauler's name \_\_\_\_\_  
address \_\_\_\_\_  
hauler's DEQ permit # \_\_\_\_\_  
phone number \_\_\_\_\_
- ☐ Onsite disposal
- ☐ Offsite disposal  
hauler's name \_\_\_\_\_  
address \_\_\_\_\_  
hauler's DEQ permit # \_\_\_\_\_  
phone number \_\_\_\_\_

Describe the method(s) of storage or disposal checked above.

Do you have an EPA or DEQ permit for storage or hauling? ☐ Yes ☐ No If yes, attach a copy of the permit.

- B9. List all principal materials regularly used in your facility that may be present in your wastewater discharge (such as cleaning agents, solvents, food processing waste, plating solutions, catalysts, milk wastes, ink, etc.). Identify chemical constituents, if known, or brand name. Attach material safety data sheets.

Generic Type	Amount Per Year	Discharged to		Spill Potential		Chemical Constituents or Brand Name
		Storm	Sanitary	Storm	Sanitary	
a. Example: Degreaser	3 gallons			X		Trichloroethylene
b. Potash	3 MGPY		X			(see MSDS in Attachment C to
c.						the permit application.)
d.						
e.						
f.						
g.						
h.						
i.						
j.						
k.						

(Attach additional sheets if necessary)

- B10. Have you listed with the Fire Bureau the onsite storage of flammable or combustible liquids or solids, hazardous chemicals, or radioactive materials?  
☐ Yes ☒ No No on-site flammables or combustible liquids.

If yes, list materials, if any, and their scientific or common and brand names and what quantities are being stored (use extra sheets if needed or attach a copy of Fire Bureau list).

S-Scientific/C-Common	Brand Name	Lbs or Gallons
a.		
b.		
c.		
d.		

- B11. Do you have an accidental spill prevention program for the facility? ☐ Yes ☒ No Emergency response plan? ☐ Yes ☒ No  
 If yes, attach plans.

B12. Characteristics of Wastewater:

- a. Temperature Ambient Don't know ☐  
 b. pH level 8.5 Don't know ☐  
 c. Flammable or explosive materials Yes ☐ No ☒ Don't know ☐  
 d. Solid or viscous materials Yes ☐ No ☒ Don't know ☐  
 e. Priority pollutants Yes ☐ No ☒ Don't know ☐ If yes, complete Attachment A.  
 (See Attachment A for the priority pollutants list.)

- B13. Attach any wastewater analysis that has been performed on the wastewater discharge(s) from your facilities in the last year. Attach a copy of the most recent lab data to this questionnaire. Be sure to include the date of the analysis, name of laboratory performing the analysis, and location(s) from which sample(s) were taken (attach sketches, plans, etc., as necessary).

See analysis from Columbia Analytical Services in Attachment D to the Permit Application.

B14. If your facility uses processes in any of the industrial categories or business activities listed below and any of these processes generate or cogenerate wastewater or waste sludge, place a check beside the category or business activity (check all that apply).

a. Industrial Categories NA

EPA Category Code	Category
467 [ ]	Aluminum forming
461 [ ]	Battery manufacturing
434 [ ]	Coal mining
465 [ ]	Coil coating
468 [ ]	Copper forming
469 [ ]	Electric & electronic components
413 [ ]	Electroplating (If checked, please complete Attachment B)
415 [ ]	Inorganic chemicals
420 [ ]	Iron & steel
425 [ ]	Leather tanning & finishing
433 [ ]	Metal Finishing (If checked, please complete Attachment B)
464 [ ]	Metal molding & casting (Foundries)
471 [ ]	Nonferrous metals forming
421 [ ]	Nonferrous metals manufacturing
414 & 416 [ ]	Organic chemicals, plastics, & synthetic fibers
455 [ ]	Pesticides
419 [ ]	Petroleum refining
439 [ ]	Pharmaceuticals
463 [ ]	Plastics processing
466 [ ]	Porcelain enamel
430 & 431 [ ]	Pulp, paper, and fiberboard
428 [ ]	Rubber
423 [ ]	Steam electric
410 [ ]	Textile mills
429 [ ]	Timber products (wood preserving)

b. Other Business Activity

[ ]	Adhesives
[ ]	Analytical laboratories
[ ]	Auto laundries
[ ]	Beverage bottler
[ ]	Can making
405 [ ]	Dairy products
[ ]	Dry Cleaners
457 [ ]	Explosives manufacturing
[ ]	Food/edible products processor
[ ]	Gas stations
454 [ ]	Gum & wood chemicals
[ ]	Health services
460 [ ]	Hospital
[ ]	Laundries
[ ]	Machine shops
[ ]	Mechanical products
440 [ ]	Ore mining
446 & 447 [ ]	Paint & ink
459 [ ]	Photographic supplies
[ ]	Printing & publishing
[ ]	Radiator Shops
[ ]	Slaughter/meat packing/rendering
417 [ ]	Soaps & detergents
[ ]	Used oil reclaimers
[ ]	Waste recycler
[X]	Other <u>Marine Cargo Handling</u>

B15. Attach a simple schematic drawing(s) of your facility, indicating: (Drawings should be 11 x 17, or smaller)

Drawings and Sketches  
in Attachment 3.

- a. Location and size of all service outlets, process drains, floor drains
- b. Existing sampling manholes or locations where samples may be collected
- c. Current or planned flow metering equipment
- d. Current or planned automatic sampling equipment
- e. Location of pretreatment processes, treated flows, and untreated flows
- f. Location and name of pertinent streets
- g. Flow schematic to indicate process and process discharge in gpd
- h. Chemical storage location
- i. Storm drain location, if known

B16. Pretreatment devices or processes used for treating wastewater or sludge (check as many as appropriate):

- ☐ Air flotation
- ☐ Carbon filtration
- ☐ Centrifuge
- ☐ Chemical precipitation
- ☐ Chlorination
- ☐ Cyclone
- ☐ Evaporation
- ☐ Filtration
- ☐ Filtration, Multi-media
- ☐ Filtration, Rotary
- ☐ Filtration, Sand
- ☐ Flow equalization
- ☐ Grease or oil separation, type \_\_\_\_\_
- ☐ Grease trap
- ☐ Grinding filter
- ☐ Grit removal
- ☐ Ion exchange
- ☐ Neutralization, pH correction
- ☐ Ozonation
- ☐ Reverse osmosis
- ☐ Screen
- ☐ Sedimentation
- ☐ Septic tank
- ☐ Solvent separation
- ☐ Spill protection
- ☐ Sump
- ☐ Biological treatment, type \_\_\_\_\_
- ☐ Rainwater diversion or storage \_\_\_\_\_
- ☐ Other chemical treatment, type \_\_\_\_\_
- ☐ Other physical treatment, type \_\_\_\_\_
- ☒ Other, type Settlement ponds will be installed if/when coal, sulfur or petroleum coke is handled.
- ☒ No pretreatment provided

B17. Is additional pretreatment required? ☐ Yes ☒ No ☐ Don't know If yes, describe necessary pretreatment.

B18. Is industry in compliance with City industrial pretreatment ordinance? ☒ Yes ☐ No ☐ Don't Know  
See ordinance.

B19. Is industry in compliance with Federal Categorical standards? ☐ Yes ☐ No ☐ Don't Know N/A

B20. Are any process changes or expansions planned during the next three years? ☒ Yes ☐ No Please see Item B22.  
If yes, attach a separate sheet to this form describing the nature of planned changes or expansions.

B21. Please describe any previous spill events and remedial measures taken to prevent their reoccurrence:

None

B22. Comments: This facility is in the planning and design stage. The initial product  
handled will be potash (KCl). As marketing opportunities arise, coal, petroleum coke,  
and/or sulfur (prilled) may be handled in the future. The additional products would  
be stored outdoors with stormwater collection ditches to take the run-off into  
settlement ponds. Discharge from the ponds will be either to the sanitary sewer or  
via an NPDES permit to the River, depending on the results of preliminary test and  
evaluation.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature\* \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

\*This form should be signed by a responsible corporate officer, a general partner, or by a duly authorized representative. See 40 CFR 403.12(l) for full definition.

Attachment A  
PRIORITY POLLUTANT INFORMATION

1 Please indicate by placing an "X" in the appropriate space by each listed chemical whether it is Suspected to be Absent, Known to be Absent, Suspected to be Present, or Known to be Present in your manufacturing or service activity or generated as a byproduct. Some compounds are known by other names. Please refer to the Priority Pollutant Synonym Listing for those compounds which have an asterisk (\*).

Item No.	CASRN	Chemical Compound	Suspected Absent	Known Absent	Suspected Present	Known Present
1	7664417	ammonia		X		
2	1332214	asbestos (fibrous)		X		
3	57125	cyanide (total)		X		
4	7440360	antimony (total)		X		
5	7440382	arsenic (total)		X		
6	7440417	beryllium (total)		X		
7	7440439	cadmium (total)		X		
8	7440473	chromium (total)		X		
9	7440508	copper (total)		X		
10	7439921	lead (total)		X		
11	7439976	mercury (total)		X		
12	7440020	nickel (total)		X		
13	7782492	selenium (total)		X		
14	7440224	silver (total)		X		
15	7440280	thallium (total)		X		
16	7440666	zinc (total)		X		
17	83329	acenaphthene		X		
18	208968	acenaphthylene		X		
19	107028	acrolein		X		
20	107131	acrylonitrile		X		
21	309002	aldrin		X		
22	120127	anthracene		X		
23	71432	benzene		X		
24	92875	benzidine		X		
25	56553	benzo(a)anthracene*		X		
26	50328	benzo(a)pyrene*		X		
27	205992	benzo(b)fluoranthene		X		
28	191242	benzo(g,h,i)perylene*		X		
29	207089	benzo(k)fluoranthene*		X		
30	319846	a-BHC(alpha)		X		
31	319857	b-BHC(beta)		X		
32	319868	d-BHC(delta)		X		
33	58899	g-BHC*(gamma)		X		
34	111444	bis(2-chloroethyl)ether*		X		
35	111911	bis(2-chloroethoxy)methane*		X		
36	108601	bis(2-chloroisopropyl)ether*		X		
37	542881	bis(chloromethyl)ether*		X		

## Attachment A (Continued)

Item No.	CASRN	Chemical Compound	Suspected Absent	Known Absent	Suspected Present	Known Present
79		1,6-dinitro-2-methylphenol*		X		
80	51285	2,4-dinitrophenol		X		
81	121142	2,4-dinitrotoluene		X		
82	606202	2,6-dinitrotoluene		X		
83	122667	1,2-diphenylhydrazine*		X		
84	959988	endosulfan I*		X		
85	33213659	endosulfan II*		X		
86	1031078	endosulfan sulfate		X		
87	72208	endrin		X		
88	7421934	endrin aldehyde		X		
89	100414	ethylbenzene		X		
90	206440	fluoranthene		X		
91	86737	fluorene*		X		
92	76448	heptachlor		X		
93	1024573	heptachlor epoxide		X		
94	118741	hexachlorobenzene*		X		
95	87683	hexachlorobutadiene		X		
96	77474	hexachlorocyclopentadiene*		X		
97	67721	hexachloroethane*		X		
98	193395	indeno (1,2,3-cd)pyrene*		X		
99	78591	isophorone*		X		
100	74873	methylene chloride*		X		
101	91203	naphthalene		X		
102	98953	nitrobenzene		X		
103	88755	2-nitrophenol*		X		
104	100027	4-nitrophenol*		X		
105	62759	n-nitrosodimethylamine*		X		
106	621647	n-nitrosodipropylamine*		X		
107	86306	n-nitrosodiphenylamine*		X		
108	12674112	PCB-1016*		X		
109	11104282	PCB-1221*		X		
110	11141165	PCB-1232*		X		
111	53469219	PCB-1242*		X		
112	12672296	PCB-1248*		X		
113	11097691	PCB-1254*		X		
114	11096825	PCB-1260*		X		
115	87865	pentachlorophenol		X		
116	85018	phenanthrene		X		
117	108952	phenol		X		
118	129000	pyrene		X		
119	1746016	2,3,7,8-tetrachlorodibenzo-p-dioxin*		X		

## **PART III**

### **SIGNATORY AUTHORIZATION**

## **PART II**

# **INDUSTRIAL WASTE WATER DISCHARGE** **PERMIT APPLICATION**



CITY OF

# PORTLAND, OREGON

BUREAU OF ENVIRONMENTAL SERVICES

Earl Blumenauer, Commissioner  
Mary T. Nolan, Director  
1120 S.W. 5th, Rm. 400  
Portland, Oregon 97204-1972  
(503) 796-7740  
FAX: (503) 796-6995

## INDUSTRIAL WASTEWATER DISCHARGE

### PERMIT APPLICATION

#### General Instructions

This form serves as a basis for Industrial Wastewater Discharge Permit Issuance. The City will be verifying data contained in the returned form through phone calls and site visits. Please take the time to fill out the form thoroughly and adequately. Enclosed are copies of the environmental survey submitted for your reference. All questions should be answered. (Process wastewater also includes such items as spent solvents and chemicals dumped down floor drains and sinks.)

- |              |  |
|--------------|--|
| Section I    | Water/Wastewater Data: completed by all users discharging or preparing to discharge process wastewater.  |
| Section II   | Business/Facility Description: completed by all users discharging or proposing to discharge process wastewater.  |
| Section III  | Permit Application Monitoring Form: to be completed by all industrial users. The Permit Application Monitoring Form satisfies Baseline Monitoring Requirements for categorical industrial users. |
| Attachment A | Process schematic flow form  |
| Attachment B | Building layout form   |

Sections II and III contain specific instructions and examples to help you answer the questions. The instructions are located on the backside of the pages.

#### New Facilities Proposing to Discharge Wastewater:

Please supply as much information as possible, providing the best estimates where appropriate.

#### Categorical Users:

EPA has published specific federal standards called "categorical pretreatment standards." Industrial facilities covered by these standards are commonly termed "categorical users."

#### Compliance with Pretreatment Standards:

Industrial and commercial facilities that have or will have a process wastewater discharge are required to comply with federal standards and local standards (generally prohibitive and specific limits such as heavy metals and cyanide), whichever apply or are more stringent. In most cases, the City may not know which standards apply until it reviews the general information that you provide.

Leave Blank: City use only

Date Received: \_\_\_\_\_

### GENERAL INFORMATION

Complete all applicable sections. Information must be typewritten or clearly printed. Attach requested information as needed. Signing official must have authorization to provide such information on behalf of the company, corporation, or partnership.

1. Company Name/Telephone number: Hall-Buck Marine, Inc.  
Division name: (if applicable) Portland Bulk Terminal - TS
2. Mailing Address: Street or P.O. Box: P. O. Box 83838  
City, State, Zip Code: Portland, OR 97283-3838
3. Facility Address: (if different from mailing address)  
Street or P.O. Box: 15552 N. Lombard Street  
City, State, Zip Code: Portland, OR
4. Person to be contacted about this form: Marie Krien-Schmidt  
Name: \_\_\_\_\_  
Address: P. O. Box 625  
City, State, Zip Code: Sorrento, LA 70778  
Title: Manager of Environmental Affairs  
Phone Number: (504) 293-9935
5. Person to be contacted in case of an emergency: Kermit Pitre  
Name: \_\_\_\_\_  
Address: P. O. Box 83838  
City, State, Zip Code: Portland, OR 97283-3838  
Title: Vice President, West Coast Operations  
Phone Number: (503) 285-2990

#### Confidentiality

Please indicate those sections of this questionnaire that you wish to remain confidential and your basis for requiring confidentiality.

#### Qualified Professional Certification

I hereby certify under penalty of law that this information was obtained in accordance with the applicable procedures and requirements as specified in the Federal General Pretreatment Regulations and amendments thereto, and the City's Sewer Use Ordinance. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Marie Krien-Schmidt

Name (print)

Mgr. Environmental Affairs

Signature	Title	Date	Phone
-----------	-------	------	-------

#### Authorized Representative Statement

I certify under penalty of law that I have personally examined and I am familiar with the information in this report and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that the sampling results reported are representative of normal work cycles and expected pollutant discharges.

Thomas B. Stanley

Name (print)

President

Signature	Title	Date	Phone
-----------	-------	------	-------

## Section I--Water/Wastewater Data

1. **Water use and distribution**—Estimate the average quantity of water received and wastewater discharged daily (for new businesses, estimate flows).

	Supply From (gal/day)		Discharged To (gal/day)	
	City Water	Other Source	Sanitary Sewer	Other
Water Used for:				
Sanitary	350		350	
Processes (see No. 10 for categorical users)				
Boiler/Cooling Tower				
Cooling Water Contact				
Washing (equipment washdown)	15,000		15,000	
Irrigation				
Air Pollution Control				
Surface Water			1,500	
Water Hauler				
Other (Describe)				
Total:	15,350		16,850	
Water Account Number				

2. Are, or will, the discharges be continuous [ ] or batch [x]?
3. If batch discharge occurs or will occur, indicate:
- (a) Percent processing as batch 100%
- (b) Percent processing as continuous \_\_\_\_\_
- (c) Number of batch discharges 5 at 0.5  
(per week) (hours per discharge)
- (d) Average quantity per batch 15,000 gallons (500 gpm x 30 min)
- (e) Flow rate: 500 gallons/minute
4. Discharge Period
- 8 Hrs/day; 5 days/week; unloading rail cars  
24 Hrs/day; 1 day/week; loading ships
- (a) Hours of Day Operated or planned: M    T    W    Th    F    Sat    Sun
- (b) Duration of Discharge (hrs/day): M    T    W    Th    F    Sat    Sun
5. Variation of Operation 0.5 Hrs/day; 5 days/week; any day

Is the business or proposed activity:  
 Continuous through the year [ ☒ ], or  
 Seasonal [ ☐ ]—Circle the months of the year during which discharge occurs:

J F M A M J J A S O N D

6. **Process flow schematic:** draw appropriate diagram(s) using the form in Attachment A. ATTACHED "A"
7. **Building layout:** Draw layout of building using Attachment B. ATTACHED "B"

Section I--Water/Wastewater Data

8. List existing or proposed plant sewer outlets, size, and flow (assign sequential reference number to each sewer starting with No. 1, see Attachments A and B):

<u>Reference No.</u>	<u>Sewer Size (inches)</u>	<u>Descriptive location of sewer connection or discharge point</u>	<u>Daily Avg. flow (gal/day)</u>
1	4"	Force Main to Lombard	
2	4"	"	
3	4"	"	

9. General characteristic of wastewater or proposed wastewater discharge: (provide specific values for a. b. d. e. f. if known)

- (a) Temperature: Ambient Don't know \_\_\_\_\_
- (b) pH level: \* Don't know \* 5.5 - 11.5
- (c) Flammable or explosive materials: Yes [ ] No [X] Don't know [ ]
- (d) Fats, oils, and grease (mg/L): <10 Don't know [ ]
- (e) 800 (mg/L): \_\_\_\_\_ Don't know [ ]
- (f) TSS (mg/L): \_\_\_\_\_ Don't know [X]
- (g) Solid or viscous material Yes [ ] No [X] Don't know [ ]
- (h) Toxics: Yes [ ] No [X] Don't know [ ] \*\*\* REVIEW ENVIRONMENTAL SURVEY B ATTACHMENT "A".
- (i) Solvents: Yes [ ] No [X] Don't know [ ]

10. For categorical facilities, provide the following flows for each of your regulated processes or proposed regulated process (i.e., manufacturing process line covered by categorical pretreatment standards). N/A

- (a) Total Plant Flow in Gallons Per Day (gpd) discharged to the sewer system:

Average \_\_\_\_\_ Maximum \_\_\_\_\_

- (b) Individual Process Flows in Gallons Per Day (gpd):

<u>No.</u>	<u>Regulated Process</u>	<u>Average flowrate (gpd)</u>	<u>Maximum flowrate (gpd)</u>	<u>Type of Discharge (batch, continuous, none)</u>

11. Is an inspection and sampling manhole structure available onsite? Yes [X] No [ ]

- If yes, provide location below and include as part of the process flow schematic (see Attachment O).
- Location description: At force main termination prior to connect at Lombard.
- If no, is one planned? Yes [ ] No [ ]

12. Do you or plan to have automatic sampling equipment or continuous wastewater flow metering equipment currently in use or included in future plans?

Current: Sampling Equipment Yes [ ] No [ ] N/A [ ] Flow Metering Yes [ ] No [ ] N/A [ ]

Planned: Sampling Equipment Yes [ ] No [X] N/A [ ] Flow Metering Yes [X] No [ ] N/A [ ]

If so, please indicate the present or future location of this equipment on the sewer schematic and describe the equipment below: Flow meters will measure industrial discharge to sanitary

sewer at sump discharge; remote meter will be mounted near entrance to site.

13. Does your facility pretreat or plan on pretreating any wastewater prior to discharge to a sanitary sewer?

Yes [ ] No [X] N/A [ ]

Section II-Business/Facility Description

**PURPOSE**—The business description is primarily used to determine the substances which may enter into the wastewater discharge from the business activity.

**1. Business activity**—(Complete a separate sheet for each major or proposed business activity or product line on premises.)

**Activity:** Potash Handling **SIC Nos.:** 4491

**(a) Raw materials used or planned for use:**

Potash (KCI)

**(b) Chemicals used or planned for use:**

N/A

**(c) Product (new businesses provide best estimates):**

1st year of operation about  
1 million metric tons  
average 200 days/year

Type of Product (Brand Names)	Past Calendar Year		Estimate This Calendar Year	
	Amounts Per Day (Daily Units)		Amounts Per Day (Daily Units)	
	Average	Maximum	Average	Maximum
Potash	N/A	N/A	5000 Mt/Day	40000 Mt/Day

**(d) Description**—Describe each wastewater generating or proposed operations or manufacturing process. Indicate variations in production and operations during the year. (Use additional sheets as necessary.)

Equipment washdown to prevent product cross-contamination. Equipment includes rail car bottom dump unloading station, belt conveyors, dust collectors, and shiploader.

**(e) Substances Discharged**—Give common and technical names of each major raw material and product that may be discharged to the sewer. Briefly describe the physical and chemical properties of each substance and products. (use additional sheets if necessary.)

NAME	DESCRIPTION
Potash (KCI)	Potassium Chloride: See MSDS in ATTACHMENT "C". Products handled will be both red and white potash.

### Instructions for Completing Section III

The remaining section will facilitate the collection of the necessary quantitative wastewater information to assist the City in establishing applicable pretreatment limits and requirements. NONCATEGORICAL FACILITIES are required to complete Section III, PART A ONLY. CATEGORICAL FACILITIES covered by federal categorical pretreatment standards ("categorical users") are required to complete Section III PARTS A and B.

#### Section III-Permit Application Monitoring Report: PARTS A and B

Section III PART A is to be completed by all facilities.

Section III PART B is additionally required for categorical industries.

---

#### Note:

New Facilities (categorical and noncategorical): new businesses moving into existing facilities and new business proposing to construct a new building. No discharge of process wastewaters has occurred. However, supply as much information as possible providing best estimates where appropriate.

Contact the City if there are any questions on what limits apply to the discharge, what pollutants to sample, sampling requirements, and where to take samples. The general instructions on the back of the form provide general information on sampling.

Section III-Permit Application Monitoring

**PART A: NON-CATEGORICAL INDUSTRIES**

Note: Samples should be taken of the final effluent prior to discharge to the City's collection system. If there is more than one discharge of process wastewater to the City's sewer lines, xerox off this page and supply the analytical results for multiple discharges.

1. Existing Noncategorical Facility (report results in concentrations (mg/L) or mass (lbs))
  - (a) Each noncategorical facility will sample, have analyzed, and report on all pollutants as specified by the City. Samples collected must be representative and taken during peak production. Where mass limits apply, the facility must report results on a mass limit basis [concentration (x) regulated process flow]. Attach all calculations.

2. New Noncategorical Facility

- (a) Supply as much information as possible providing best estimates where appropriate.

See attached reports for Columbia Analytical Services, Inc.

ANALYTICAL RESULTS OF PROCESS WASTEWATER DISCHARGES

Pollutant

Monthly Avg. Limit

Reported Average

Daily Max. Limit

Reported Maximum

1. Specify units used (mg/L or lb): \_\_\_\_\_
2. Sample type (grab, composite): \_\_\_\_\_
3. Number of samples collected (explain): Saturated & 50% solution prepared as typical of discharge,
4. Dates and times samples collected: \_\_\_\_\_
5. Sample collection location: N/A
6. Where samples analyzed: Lab: Columbia Analytical Services, Inc.
7. Methods of analyses: See Attached Reports
8. Provide name and address of commercial labs who are performing analysis:

Name: Columbia Analytical

Address: 1317 S. 13th Kelso, WA

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Section III-Permit Application Monitoring

**PART A: NON-CATEGORICAL INDUSTRIES**

**1(b) Compliance certification:**

Are all applicable pretreatment standards being met on a consistent basis?

Yes [ ☒ ] No [ ☐ ]

If not, what additional operations and maintenance procedures are being considered for compliance? Also, list additional pretreatment being considered to meet standards.

- (c) Provide a compliance schedule for standards to be met. Specify the major events along with corresponding dates. Note that this schedule will require comment by the City and will be subject to changes.

**2. Qualified Professional Certification:**

I hereby certify under penalty of law that this information was obtained in accordance with the applicable procedures and requirements as specified in the General Pretreatment Regulations and amendments thereto and the City's sewer use ordinance. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Marie Krien-Schmidt

Name (print)

Mgr., Environmental Affairs

Signature

Title

Date

Phone

**Authorized Representative Statement**

I certify under penalty of law that I have personally examined and I am familiar with the information in this report and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that the sampling results reported are representative of normal work cycles and expected pollutant discharges.

Name (print)

Signature

Title

Date

Phone

## PART B: CATEGORICAL USERS

N/A

### Process Description

### Production Rate

### Pretreatment

### Standard

Category

**Subpart**

### Flow

**Total plant flow:**

## a. Analysis of Regulated Flows

**Regulated Process line(s):**

Process Flow(s) (Daily ave. in mgd):

## Pollutant

Monthly Avg. Limit

**Reported Average**

Daily Max. Limit

**Reported Maximum**

b. Sample type (grab, composite): \_\_\_\_\_

c. Number of samples collected (explain): \_\_\_\_\_

d. Dates and times samples collected: \_\_\_\_\_

c. **Sample collection location:** \_\_\_\_\_

f. Where samples analyzed: \_\_\_\_\_

g. Methods of analyses:

**h. Provide name and address of commercial labs performing analyses:**

**Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

Section III--Permit Application Monitoring

**PART B: CATEGORICAL USERS**

**4. Total Toxic Organics (TTOs):**

N/A

Facilities who use toxic organics listed by EPA in its published categorical pretreatment standards are required to meet TTO pretreatment standards and must initially sample for TTO and determine compliance. Facilities found to be in compliance with TTO standards can develop a solvent management plan in lieu of having to periodically sample for toxic organics. If you do not use toxic organics in your manufacturing process, you will not be required to sample for TTO but you must answer question "A" below.

- (a) We presently do not or plan to use any of the toxic organics that are listed under the TTO standard located in the applicable categorical pretreatment standards published by EPA. ☐
- (b) We presently use or plan to use organic toxicants listed in the categorical pretreatment standards. ☐ Complete Parts c and d.
- (c) A PAMF has previously been submitted which contains TTO information.  
Yes ☐ No ☐
- (d) A solvent management plan has been developed and is attached.  
Yes ☐ No ☐

**5. Compliance Certification**

- (a) Is the facility meeting applicable categorical pretreatment standards on a consistent basis?  
Yes ☐ No ☐
- (b) If no, do you require:
  - (1) Additional operation and maintenance (O&M) to achieve compliance? Yes ☐ No ☐
  - (2) New or additional pretreatment facilities to achieve compliance? Yes ☐ No ☐
- (c) If additional O&M or new or additional pretreatment will be required to meet categorical pretreatment standards on a consistent basis, attach a description of it and a schedule on separate sheets. Project increments of progress indicating dates for the commencement and completion of major events leading to compliance with the standard. Note: The final compliance date in this schedule shall not be later than the compliance date for the applicable pretreatment standard. Written progress reports are required within 14 days of each of the compliance dates specified in the compliance schedule.
- (d) ☐ I have provided a compliance schedule.

Qualified Professional Certification:

I hereby certify under penalty of law that this information was obtained in accordance with the applicable procedures and requirements as specified in the General Pretreatment Regulations and amendments thereto and the City's sewer use ordinance. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

\_\_\_\_\_  
Name (print)

\_\_\_\_\_  
Signature Title Date Phone

Authorized Representative Statement:

I certify under penalty of law that I have personally examined and I am familiar with the information in this report and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that the sampling results reported are representative of normal work cycles and expected pollutant discharges.

\_\_\_\_\_  
Name (print)

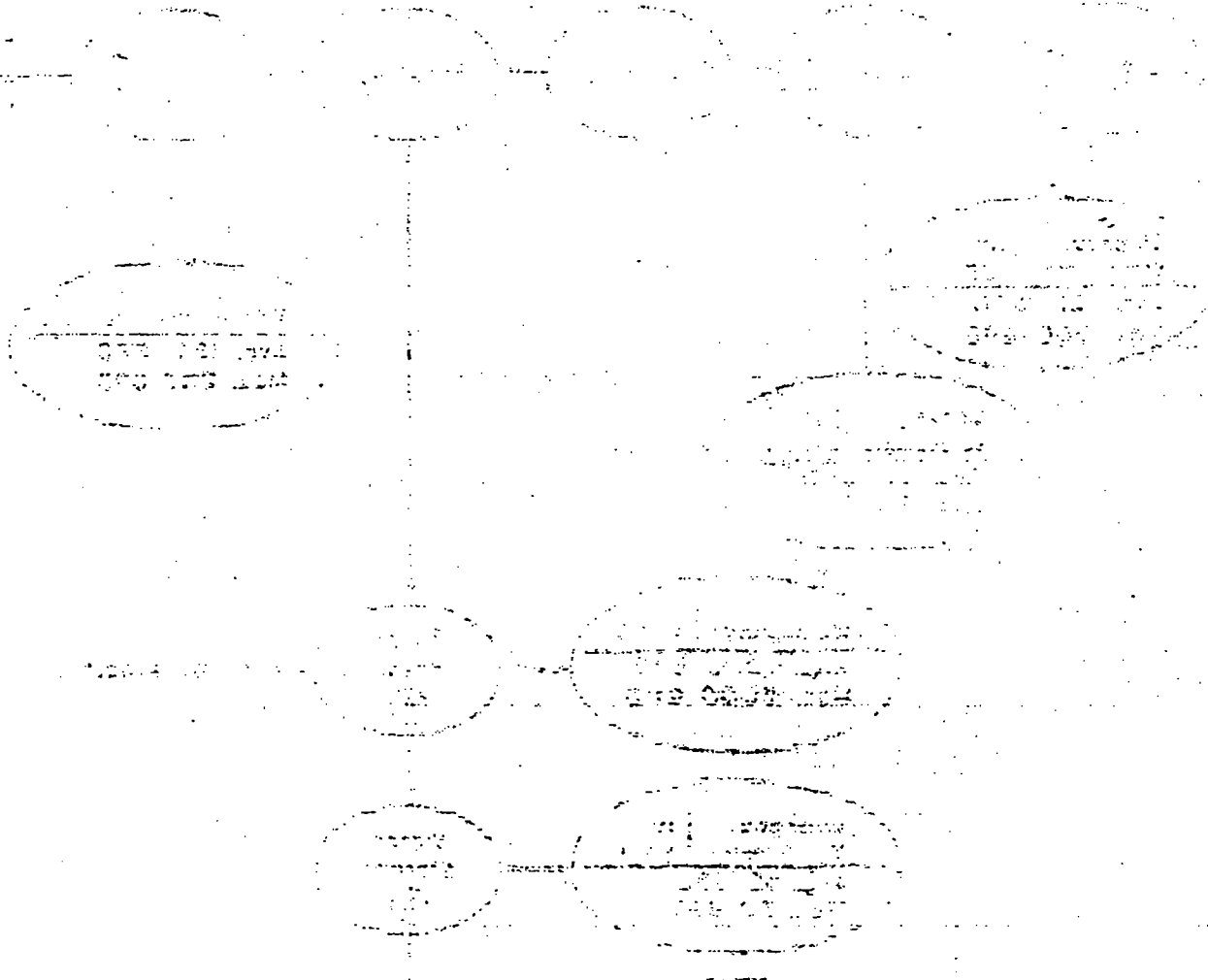
\_\_\_\_\_  
Signature Title Date Phone

ATTACHMENT A

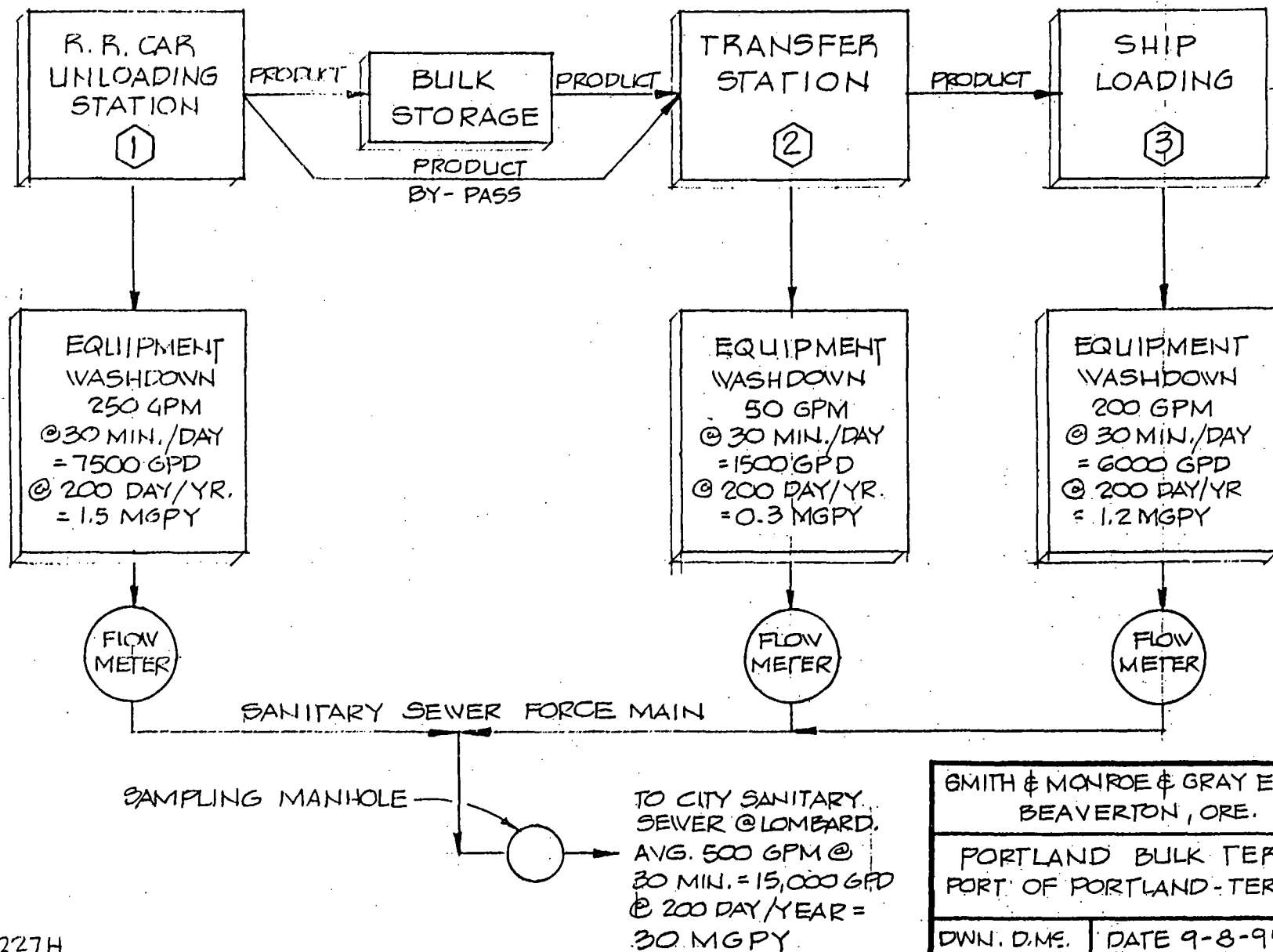
ATTACHMENT A-SCHEMATIC FLOW DIAGRAM

For each major activity in which wastewater is generated, draw a diagram of the flow of materials and water from start to completed activity, showing all unit processes generating wastewater. Number each unit process having wastewater discharges to the community sewer. Use these numbers when showing this unit process in the building layout in schematic. Use the space below or additional sheets of 8x11 paper. An example is provided on the backside.

SEE ATTACHED SHEET



ATTACHMENT "A" - SCHEMATIC FLOW DIAGRAM  
 ACTIVITY: POTASH HANDLING - WASTEWATER DISCHARGE



SMITH & MONROE & GRAY ENGINEERS  
 BEAVERTON, ORE.

PORTLAND BULK TERMINAL  
 PORT OF PORTLAND - TERMINAL 5

DWN. D.M.E.

DATE 9-8-95

REV.

## ATTACHMENT B-BUILDING LAYOUT

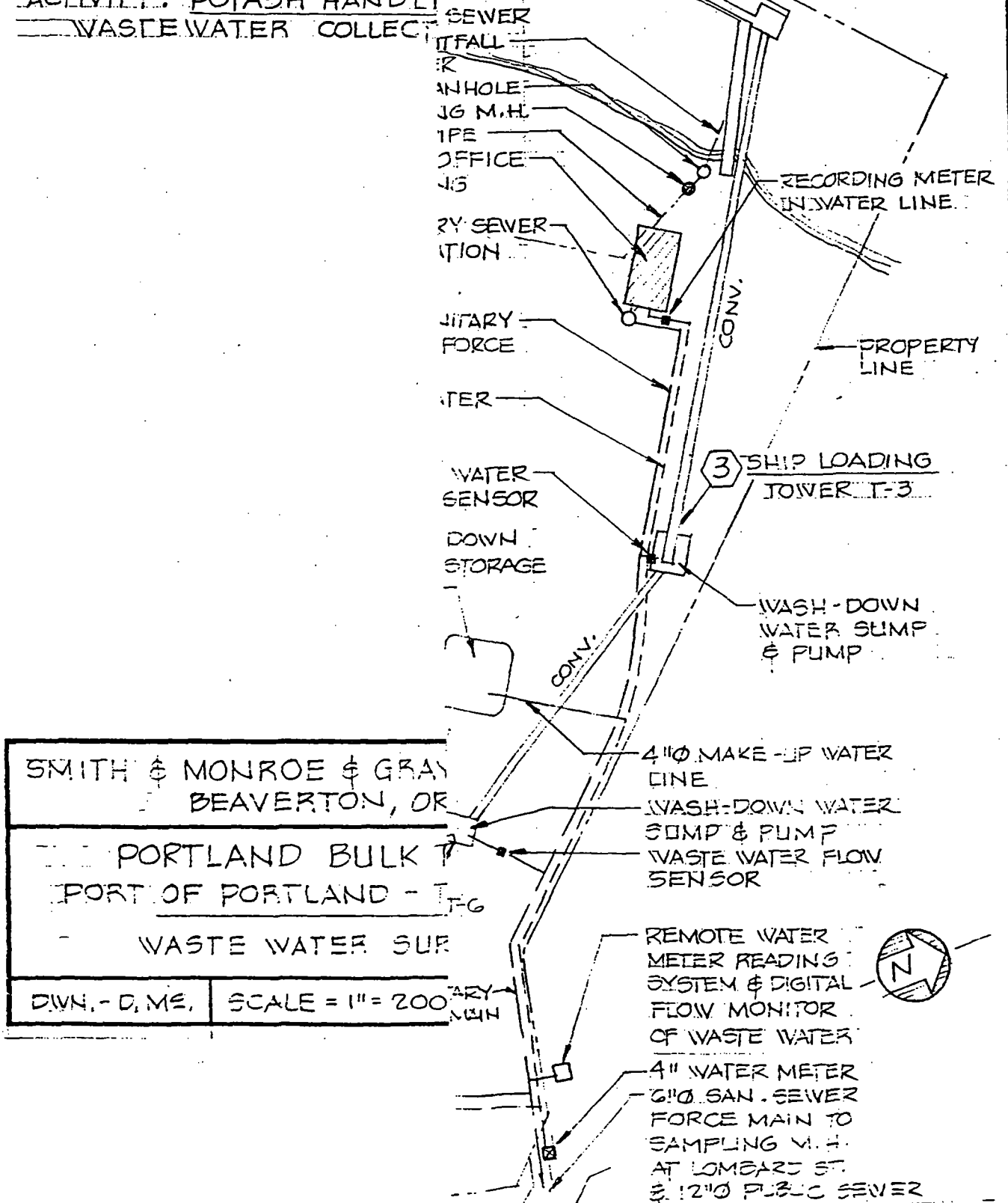
Draw to scale the location of each building on the premises. Show location of all water meters (current and planned), storm drains, numbered unit processes (from process schematic(s)), community sewers and each side sewer connected to the community sewers, automatic sampling equipment (current and planned), location of pretreatment processes, treated flows and untreated flows, name and location of pertinent streets. Use flow schematic to indicate process and process discharge in gpd. Number each side sewer and show possible sampling locations (sampling manhole).

An attached blueprint or drawing of the facilities showing the above items may be substituted for a drawing on this sheet. See example on the back.

SEE ATTACHED SHEET

# ATTACHMENT "E" BUILDING LAYOUT

ACTIVITY: POTASH HANDLING  
WASTEWATER COLLECTION



**ATTACHMENT C**

**MATERIAL SAFETY DATA SHEET FOR  
POTASH**

ATTN: WANDA



Canpotex Limited

**OCCUPATIONAL HEALTH AND SAFETY  
MATERIAL SAFETY DATA SHEET**

The following data on potash products provide a guideline only. Any specific health concerns should be directed to a qualified industrial hygienist.

**Section I:**

Company Name: Canpotex Limited

Emergency Telephone Number: (306) 931-2200

Address: #400, 111 2nd Avenue South, Saskatoon, Saskatchewan, Canada

Chemical Name: Potassium Chloride

Trade Name and Synonyms: Potash, Muriate of Potash, Sylvite

Chemical Family: Inorganic Salt

Formula: KCl

— see attached description  
from Hawley's Chemical  
Dictionary

**Section II: Ingredients**

KCl	95 - 99.8%
NaCl	0 - 5%
Iron oxides	Trace
Loose bulk density 1 000-1	65 - 72 lb/ft <sup>3</sup>
Angle of repose	28 - 32°

Additives (may be changed without notice):

Fuel-oil hydrocarbons (diesel fuel)	0 - 0.1%
Primary aliphatic amines	0 - 0.04%
Ethylene glycol	0 - 0.02%
Unsaturated C <sub>18</sub> fatty acids	0 - 0.08%
Diterpenic (rosin) acids	0 - 0.08%
Sterols, fatty alcohols	0 - 0.04%

Hazardous mixtures of other liquids, solids, or gases: none.

**Section III: Physical Data**

Boiling Point: n/a

Vapor Pressure (mm Hg): n/a

Vapor Density (air = 1): n/a

Solubility in water (% by weight @ 20°C): 25%

Specific Gravity (water = 1): 2.0

Percent Volatile by Volume: 0 - 0.5%

Evaporation Rate: Negligible.

pH: 8-9

Appearance and Odor: White to pink in color, fine grain to wheat-cereal-sized particles.

No odor to slight, pungent diesel-fuel-type odor.

03/17/95

13:56

C SERV UCR111

P.01

**Section IV: Fire and Explosion Hazard Data**

Flash Point: n/a

Flammable Limits: n/a

Extinguishing Media: n/a

Special Fire Fighting Procedures: None. Product can be used to smother fires.

Unusual Fire and Explosion Hazards: None.

**Section V: Health Hazard Data**

Threshold Limit Value: No specific TLV has been established.

Nuisance Particulates TLV: 10mg/m<sup>3</sup>.

Effects of Overexposure: None expected.

Emergency and First Aid Procedures: Ordinary personal hygiene should be adequate.

**Section VI: Reactivity Data**

Stability: Stable.

Conditions to Avoid: None.

Incompatibility (Materials to avoid): None.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None.

**Section VII: Spill or Leak Procedures**

Steps to be Taken in Case Material is Released or Spilled:

Shovel or sweep up and place in waste disposal container. Flush area with water.

Major spills (i.e., derailments) may be loaded into trucks with front-end loaders.

Uncontaminated material may be recycled.

Waste Disposal Method:

Disposal must be made in accordance with Federal, State, Provincial and local regulations.

**Section VIII: Special Protection Information**

Respiratory Protection (specify type):

For dusty conditions, particulate filtering disposable mask is adequate.

Ventilation: n/a

Protective Gloves: Not required.

Eye Protection: Safety glasses are adequate.

Other Protective Equipment: Not required.

**Section IX: Special Precautions**

Precautions to be Taken in Handling and Storing:

Heating products may lead to vaporization of additives. The need for respiratory protection should be determined by industrial hygiene evaluation.

Other Precautions:

Keep Dry — potash is hygroscopic. Moisture causes caking. Avoid rough handling.

Degradation results in dusty products.

# Hawley's Condensed Chemical Dictionary

ELEVENTH EDITION

Revised by

N. Irving Sax  
and

Richard J. Lewis, Sr.

sylvite. (sylvine). KCl. A natural potassium chloride, contains 43% potassium chloride, 57% sodium chloride, sometimes with up to 0.26% bromide.

Properties: Colorless or white, bluish or reddish in color, streak white, vitreous luster, resembles rock salt in appearance,  $d$  1.97-1.99, Mohs hardness 2.

Occurrence: West Texas, New Mexico, Europe.

Use: Major source of potassium compounds in the US, fertilizers.



VAN NOSTRAND REINHOLD  
New York

**ATTACHMENT D**

**LABORATORY TEST DATA ON POTASH  
WASHWATER**

07/31/92

12:46

HALL-BUCK MARINE

005

07/11/1995

14:38

\*\*\*

FAX UF-400 \*\*\*

07-01658 P.05

## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Report

Client: Hall-Buck Marine  
Project: PBT-5  
Sample Matrix: Liquid

Service Request: K9503703  
Date Collected: 6/14/95  
Date Received: 6/15/95  
Date Extracted: NA

## Inorganic Parameters:

Units: mg/L (ppm)

Sample Name:	White 100%	White 50%	Red 100%
Lab Code:	K9503705-001	K9503705-002	K9503705-003

Analyte	EPA Method	MRL			
pH (units)	150.1	-	8.80	8.83	10.25
Conductivity (µmhos/cm)	120.1	2	410000	220000	320000
Biochemical Oxygen Demand (5-Day)	405.1	4	ND	ND	ND
Chemical Oxygen Demand (COD)	410.1	5	3100	3100	4300
Solids, Total Dissolved (TDS)	160.1	5	262000	125000	194000
Solids, Total Suspended (TSS)	160.2	5	25	17	54

white potash (KCl)  
and  
red potash (KCl)

Approved By:

Date:

6/30/95

07/31/92

12:20

HALL-BUCK MARINE

006

07/11/1995

14:39

\*\*\* PNNFAX UF-400 \*\*\*

06601658 P.06

## COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Report

Client: Hall-Buck Marine  
Project: PBT-5  
Sample Matrix: Liquid

Service Request: K9503705  
Date Collected: 6/14/95  
Date Received: 6/15/95  
Data Extracted: NA

Inorganic Parameters  
Units: mg/L (ppm)

Sample Name: Red 50%      Method Blank  
Lab Code: K9503705-004      K9503705-MB

Analyte	EPA Method	MRL		
pH (units)	150.1	--	10.26	.
Conductivity (umhos/cm)	120.1	2	160000	ND
Biochemical Oxygen Demand (5-Day)	405.1	4	ND	-
Chemical Oxygen Demand (COD)	410.2	5	2100	ND
Solids, Total Dissolved (TDS)	160.1	5	94000	ND
Solids, Total Suspended (TSS)	160.2	5	22	ND

Approved By: 

Date: 6/30/95